

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>			5. Lease Designation and Serial No. ML-40577																
b. Type of Well Oil <input type="checkbox"/> Gas <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone <input type="checkbox"/>			6. If Indian, Allottee or Tribe Name 																
2. Name WILDROSE RESOURCES 2555 CHERRYRIDGE ROAD ENGLEWOOD, COLORADO 80110			7. Unit Agreement Name 																
3. Address 11as, Texas 75240			8. Farm or Lease Name Nequoia State																
4. Location 674' FSL & 687' FEL (SE/SE) At proposed prod. zone Same			9. Well No. 16-1																
14. Distance in miles and direction from nearest town or post office* Approx. 30 miles southwest of Green River, Utah			10. Field and Pool, or Wildcat Wildcat																
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. line, if any) 674'			11. 00, Sec., T., R., M., or Blk. and Survey or Area SE/SE Sec. 16, T26S, R14E																
16. No. of acres in lease 640			12. County or Parrish Emery																
17. No. of acres assigned to this well 40			13. State Utah																
18. Distance from proposed* location to nearest well, drilling, completed, or applied for, on this lease, ft. N/A			19. Proposed depth 2300'																
20. Rotary or cable tools Rotary			21. Elevations (Show whether DF, RT, GR, etc.) 5119' GR																
22. Approx. date work will start* April 15, 1992			23. PROPOSED CASING AND CEMENTING PROGRAM																
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Size of Hole</th> <th style="width: 15%;">Size of Casing</th> <th style="width: 15%;">Weight per Foot</th> <th style="width: 15%;">Setting Depth</th> <th style="width: 40%;">Quantity of Cement</th> </tr> </thead> <tbody> <tr> <td>9-3/4"</td> <td>7-5/8"</td> <td>24</td> <td>370'</td> <td>250 sx (to surface)</td> </tr> <tr> <td>6-3/4"</td> <td>4-1/2"</td> <td>9.5#</td> <td>2300'</td> <td>300 sx</td> </tr> </tbody> </table>					Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement	9-3/4"	7-5/8"	24	370'	250 sx (to surface)	6-3/4"	4-1/2"	9.5#	2300'	300 sx
Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement															
9-3/4"	7-5/8"	24	370'	250 sx (to surface)															
6-3/4"	4-1/2"	9.5#	2300'	300 sx															

ATTACHED AS EXHIBITS: A - Surveyors Plat
B - Ten Point Plan
C - BOP Diagram

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TECHNICAL REVIEW

Engr. 4/16/92

Geol. 3/24/92

Surface 3/24/92

DIVISION OF
OIL GAS & MINING

Kary J. Kaltenbacher, Agent
2555 Cherryridge Road
Englewood, CO 80110
Phone: 303-761-9831

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. I hereby certify that this report is true and complete to the best of my knowledge.

Signed Kary J. Kaltenbacher Title Agent Date Feb. 28, 1992

(This space for Federal or State office use)

API NO. 13-015-30040 Approval Date _____

Approved by _____ Title _____ Date 4-16-92

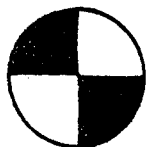
Conditions of approval, if any:

BY: J. J. Matthews
WELL SPACING: 649-3-2

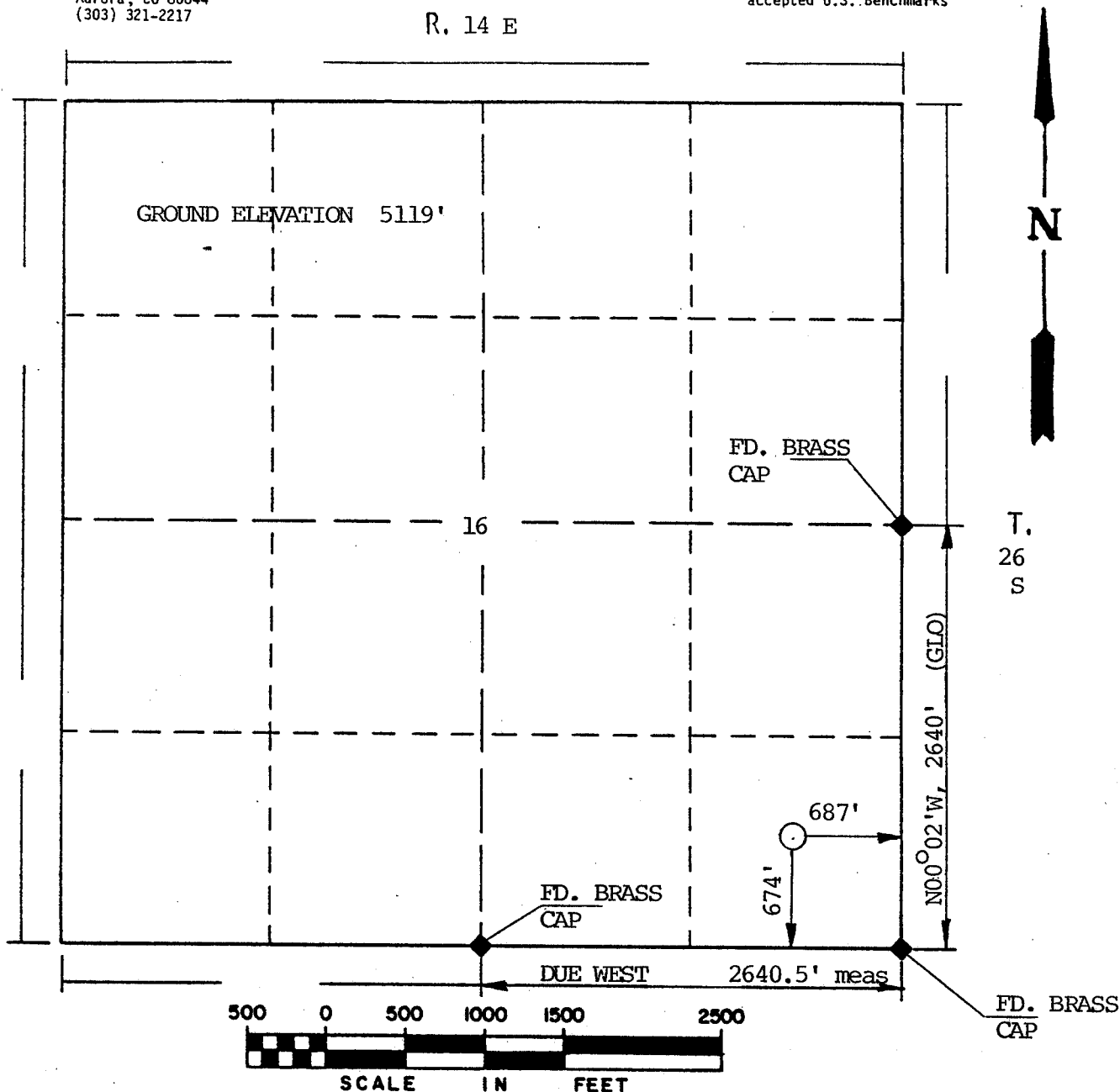
*See Instructions On Reverse Side

POWERS ELEVATION CO., INC.
P.O. Box 440889
Aurora, CO 80044
(303) 321-2217

ALL POWERS ELEVATION CO., INC.
elevations originate from
accepted U.S. Benchmarks



BASIS of BEARING: IS THE EAST LINE OF SECTION 16 T26S
R14E, WHICH BEARS N00°02'W



Powers Elevation Co., Inc. of Denver, Colorado has in accordance
with a request from KARY KAMTENBACHER for CRABTREE OIL AND GAS COMPANY
determined the location of STATE 16-1

to be 674' fsl and 687' fel Section 16 , Township 26S
Range 14 E OF THE SALT LAKE 1855 PRINCIPAL Meridian,
EMERY County, UTAH

I hereby certify that this plat is an
accurate representation of a correct
survey showing the location of
STATE 16-1

Date: FEBRUARY 26, 1992

T. Nelson

Licensed Land Surveyor No. 2711
State of UTAH

EXHIBIT B

TEN POINT PLAN: NEQUOIA STATE NO. 16-1

1. The Geologic Surface Formation

The surface formation is the Entrada.

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2. Estimated Tops of Important Geologic Markers

Navajo	150'
Kayenta	490'
Wingate	755'
Chinle	1050'
Moenkopi	1440'
White Rim	1920'
Total Depth	2300'

DIVISION OF
OIL GAS & MINING

3. Estimated Depths of Anticipated Water, Oil, Gas or Minerals

Water may be encountered in the Navajo formation.

Oil is hoped for in the White Rim formation.

4. The Proposed Casing Program

0' - 370'	9-3/4" Hole	7-5/8", 26.4#, J-55 Csg.	New
0' - 2300'	6-3/4" Hole	4-1/2", 9.5#, J-55 Csg.	New

5. The Operator's Minimum Specifications for Pressure Control

EXHIBIT "C" is a schematic diagram of the blowout preventer equipment. The BOP's will be hydraulically tested to half of working pressure after nipping up and after any use under pressure. Pipe rams will be operationally checked each 24 hour period, as will blind rams and annular preventer each time pipe is pulled out of the hole. Such checks of BOP will be noted on daily drilling reports.

Accessories to BOP will include a lower kelly cock, floor safety valve and choke manifold with pressure rating equivalent to the BOP stack.

6. The Type and Characteristics of the Proposed Circulating Muds

It is planned this well will be drilled with an air-mist system.

7. The Auxiliary Equipment to be Used

- a) A lower kelly cock will be kept in the string.
- b) A stabbing valve will be on the floor to be stabbed into the drill string when kelly is not in the string.

8 The Testing, Logging and Coring Program to be Followed

- a) No drill stem tests are planned.
- b) The Logging Program:
370' to 2300': DIL-SFL, SP, GR, FDC-CNL, CAL
- c) A 40' core will be cut in the White Rim formation.
- d) Stimulation is not planned.

9. Any Anticipated Abnormal Pressures or Temperatures

No abnormal pressures or temperatures have been noted or reported in wells drilled in the area nor at the depths anticipated in this well. Bottom hole pressure expected is 900 psi + or -.

No hydrogen sulfide or other known fluids or gases have been found, reported or known to exist at these depths in the area.

10. Anticipated Starting Date and Duration of the Operation

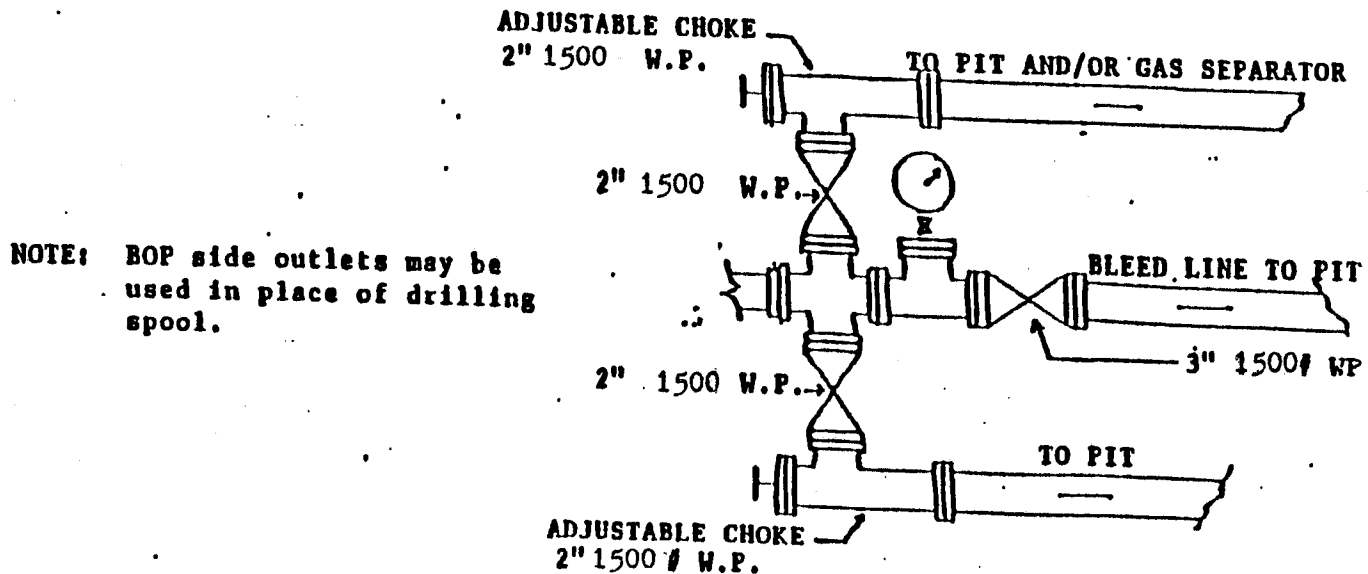
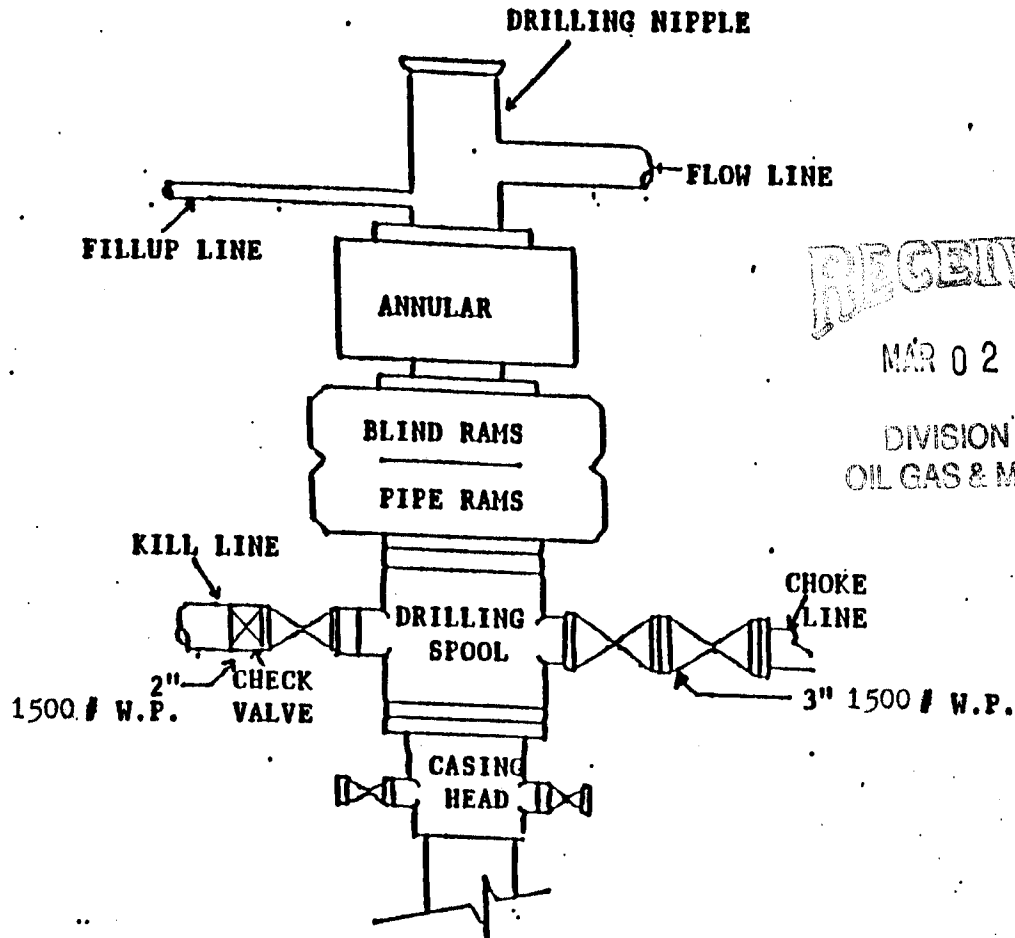
The anticipated starting date is April 15, 1992. Operations will cover approximately one week for drilling.

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OIL GAS & MINING

EXHIBIT C
BOP DIAGRAM



APPENDIX A:

**INTERMOUNTAIN ANTIQUITIES COMPUTER SYSTEM
(IMACS) SITE FORMS**

On file at:

Utah Division of State History
Salt Lake City, Utah

and

U.S. Bureau of Land Management
Price, Utah

OPERATOR Crabtree Oil & Gas Co DATE 3-9-90

WELL NAME Nequicia State 16-1

SEC SESE 16 T N6S R 14E COUNTY Emery

43-015-30040
API NUMBER

State (3)
TYPE OF LEASE

CHECK OFF:



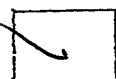
PLAT.



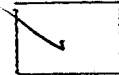
BOND



NEAREST
WELL



LEASE



FIELD
SLBM



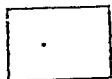
POTASH OR
OIL SHALE

PROCESSING COMMENTS:

No other well producing within sec 16.
Water Permit
Permit 3-6-90
ROCC 3-9-90

APPROVAL LETTER:

SPACING:

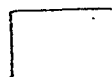


R615-2-3

N/A
UNIT



R615-3-2



N/A
CAUSE NO. & DATE



R615-3-3

STIPULATIONS:

1- Water Permit
cc: State Lands
~~State History~~
2. Build reserve pit large enough to
Contain any water flows encountered.



Charles E. Johnson, CPA
Office Director
Brad T. Barber
Office Deputy Director
Rod D. Millar
Committee Chairman
John A. Harja
Executive Director

State of Utah
OFFICE OF PLANNING AND BUDGET
Resource Development Coordinating Committee

116 State Capitol
Salt Lake City, Utah 84114
(801) 538-1027

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MAR 30 1992

DIVISION OF
OIL GAS & MINING

March 26, 1992

Frank R. Matthews
Division of Oil, Gas, & Mining
3 Triad Center, Suite 350
355 West North Temple
Salt Lake City, UT 84180-1203

SUBJECT: Proposal to Drill the Nequoa State 16-1 Well on State Lease ML 40577
State Identifier Number: UT920311-020

Dear Mr. Matthews:

The Resource Development Coordinating Committee, representing the State of Utah, has reviewed this proposal. The Division of State History comments:

The Utah State Historic Preservation Office has reviewed our cultural resource files for the above requested project area. No historic properties have been recorded within the project area because no historic properties surveys have been conducted. Such sites may exist in the project area.

A survey of the area may identify historic properties, some of which may be eligible for the National Register of Historic Places. It is your responsibility to determine the need for further actions, such as field surveys, to identify historic properties. A list of contractors approved to do these field surveys is available from our office on your request. We will be glad to comment on any determinations of eligibility (36 CFR 60.4) or effects (36 CFR 800.5) if surveys are completed.

This information is provided on request to assist the Division of Oil, Gas, and Mining in identifying historic properties. If you have questions or need additional historic assistance, please contact Jim Dykman [reference Case No. 92-0393] at 533-7039.

The Committee appreciates the opportunity to review this proposal. Please direct any other written questions regarding this correspondence to the Utah State Clearinghouse at the above address, or call Carolyn Wright at (801) 538-1535 or John Harja at (801) 538-1559.

Sincerely,

Brad T. Barber
State Planning Coordinator

BTB/rpj

CRABTREE
OIL AND GAS CO.

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March 27, 1992

DIVISION OF
OIL GAS & MINING

Mr. Ed Bonner
Utah Division of State Lands & Forestry
3 Triad Center
Suite 400
Salt Lake City, Utah 84180-1204

Re: Nequoia-State #16-1
State Lease #ML-40577
Emery County, Utah

Dear Ed:

Enclosed please find a Designation of Operator form whereby Amoco, lessee of the captioned lease, designates Wildrose Resources Corp. as operator of the captioned well. Crabtree has hired Wildrose to operate the captioned well, and as such, Crabtree hereby designates Wildrose as its agent and operator of the captioned well.

Crabtree intends for the \$10,000 C.D. (receipt previously mailed to you) to cover all obligations and operations conducted by Wildrose on this lease.

Please contact me or Kary Kaltenbacher at Wildrose (303/761-9831) if there are any questions or if you need further information.

Very truly yours,

CRABTREE OIL AND GAS CO.



L. Andrew Fleck
Land Manager
214/450-4285

a:cr321.laf

enclosure

cc: Utah Division of Oil, Gas & Mining
3 Triad Center, Suite 350
Salt Lake City, UT 84180-1203
Attn: Well Permitting

Kary Kaltenbacher, Wildrose Resources Corp.

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DESIGNATION OF AGENT OR OPERATOR - FORM 5

DIVISION OF
OIL GAS & MINING

The undersigned is, on record, the holder of oil and gas lease

LEASE NAME: State of Utah Oil, Gas and Hydrocarbon Lease

LEASE NUMBER: ML-40577

and hereby designates

NAME: Wildrose Resources Corporation

ADDRESS: 2555 Cherryridge Rd., Englewood, CO 80110

as his agent/operator, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the Division Director or Authorized Agent may serve written or oral instructions in securing compliance with the Oil and Gas Conservation General Rules and Procedural Rules of the Board of Oil, Gas and Mining of the State of Utah with respect to (describe acreage to which this designation is applicable):

Section 16: All
T26S - R14E
Emery County, Utah

It is understood that this designation of agent/operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Oil and Gas Conservation General Rules and Procedural Rules of the Board of Oil, Gas and Mining of the State of Utah. It is also understood that this designation of agent or operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated agent/operator, the lessee will make full and prompt compliance with all rules, lease terms or orders of the Board of Oil, Gas and Mining of the State of Utah or its authorized representative.

The lessee agrees promptly to notify the Division Director or Authorized Agent of any change in this designation.

Effective Date of Designation 2-27-92

By: [Signature]

(signature)

Company Amoco Production Company

Title: Attorney-in-Fact

Address P. O. Box 3092

Houston, Texas 77253

Phone: (713) 556-2000

STATE ACTIONS

Mail to:
RDCC Coordinator
116 State Capitol
Salt Lake City, Utah 84114

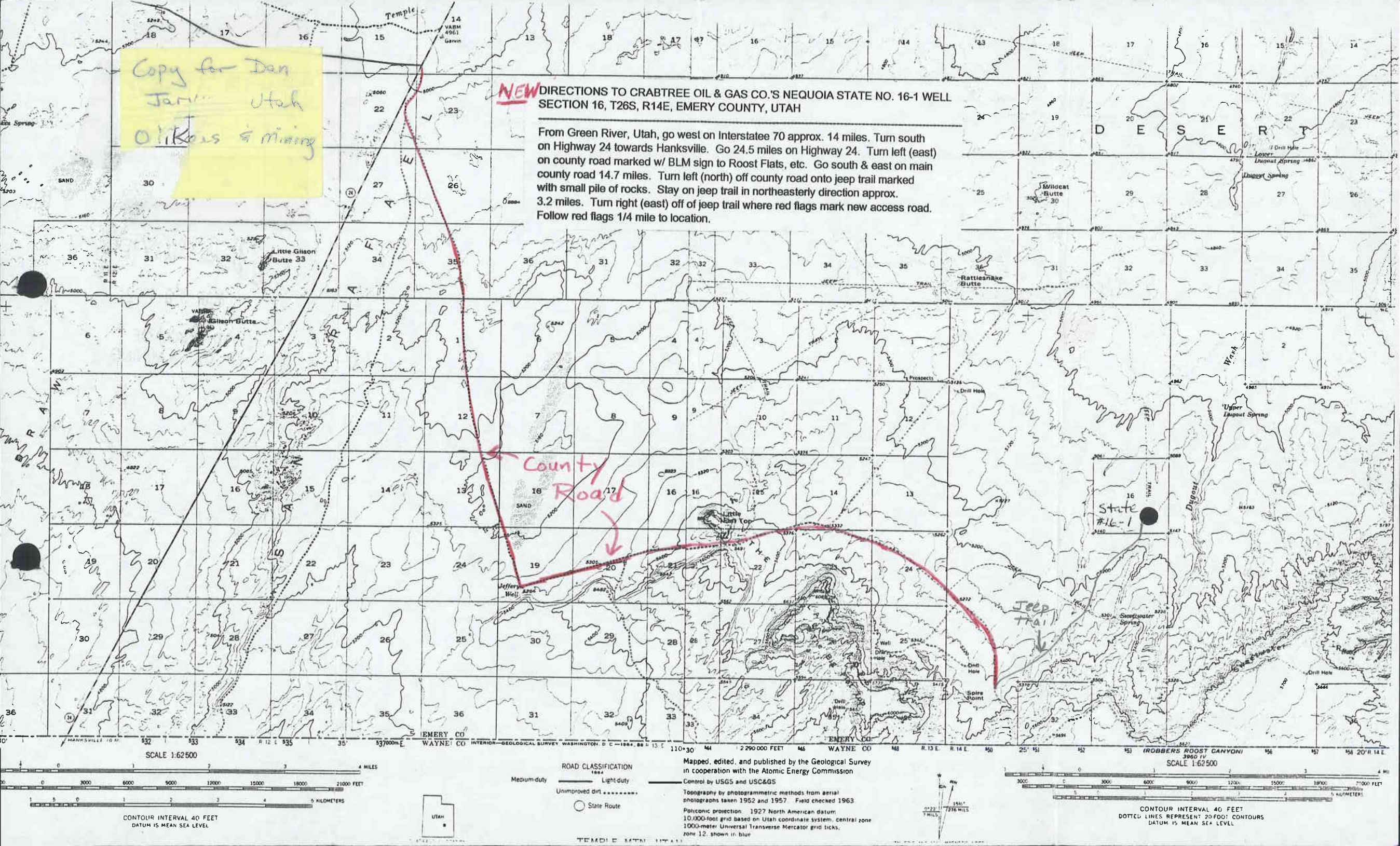
1. ADMINISTERING STATE AGENCY
OIL, GAS AND MINING
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
2. STATE APPLICATION IDENTIFIER NUMBER:
(assigned by State Clearinghouse)
3. APPROXIMATE DATE PROJECT WILL START:
April 15, 1992
4. AREAWIDE CLEARING HOUSE(s) RECEIVING STATE ACTIONS:
(to be sent out by agency in block 1)
Southeastern Utah Association of Governments
5. TYPE OF ACTION: ☐ Lease ☒ Permit ☐ License ☐ Land Acquisition
☐ Land Sale ☐ Land Exchange ☐ Other
6. TITLE OF PROPOSED ACTION:
Application for Permit to Drill
7. DESCRIPTION:
Crabtree Oil and Gas Company proposes to drill the Nequoia State 16-1 well (wildcat) on state lease ML 40577, Emery County, Utah. This action is being presented to RDCC for consideration of resource issues affecting state interests. The Division of Oil, Gas and Mining is the primary administrative agency in this action and must issue approval before operations commence.
8. LAND AFFECTED (site location map required) (indicate county)
SE/4, SE/4, Section 16, Township 26 South, Range 14 East, Emery County, Utah
9. HAS THE LOCAL GOVERNMENT(s) BEEN CONTACTED?
10. POSSIBLE SIGNIFICANT IMPACTS LIKELY TO OCCUR:
Degree of impact is based on the discovery of oil or gas in commercial quantities.
11. NAME AND PHONE NUMBER OF DISTRICT REPRESENTATIVE FROM YOUR AGENCY NEAR PROJECT SITE, IF APPLICABLE:
12. FOR FURTHER INFORMATION, CONTACT:
Frank R. Matthews
PHONE: 538-5340
13. SIGNATURE AND TITLE OF AUTHORIZED OFFICIAL
Frank R. Matthews
DATE: 3-9-92
Petroleum Engineer

WOI187

Copy for Dan
Jarvis Utah
Oil & Gas & Mining

**NEW DIRECTIONS TO CRABTREE OIL & GAS CO.'S NEQUOIA STATE NO. 16-1 WELL
SECTION 16, T26S, R14E, EMERY COUNTY, UTAH**

From Green River, Utah, go west on Interstate 70 approx. 14 miles. Turn south on Highway 24 towards Hanksville. Go 24.5 miles on Highway 24. Turn left (east) on county road marked w/ BLM sign to Roost Flats, etc. Go south & east on main county road 14.7 miles. Turn left (north) off county road onto jeep trail marked with small pile of rocks. Stay on jeep trail in northeasterly direction approx. 3.2 miles. Turn right (east) off of jeep trail where red flags mark new access road. Follow red flags 1/4 mile to location.





WILDROSE RESOURCES CORPORATION

April 7, 1992

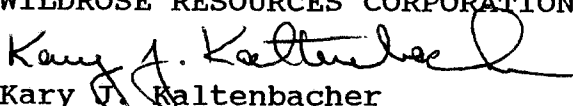
Utah Division of Oil, Gas & Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, UT 84180-1203

RE: A.P.D. - Nequoia State No. 16-1
Section 16, T26S, R14E
Emery County, Utah

Gentlemen:

Enclosed for your files please find a copy of the Archaeological Report covering the above captioned well site and the access road. This should complete the necessary documentation for the Nequoia State No. 16-1 well. If you need any additional information, please let me know.

Very truly yours,
WILDROSE RESOURCES CORPORATION


Kary J. Kaltenbacher
Vice President

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APR 10 1992

DIVISION OF
OIL GAS & MINING

**A CULTURAL RESOURCES INVENTORY OF
THE CRABTREE OIL AND GAS COMPANY'S NEQUOIA
STATE NO. 16-1 WELL, EMERY COUNTY, UTAH**

by

**Keith R. Montgomery
Consulting Archaeologist**

Prepared for:

**Wildrose Resources Corporation
2555 Cherryridge Road
Englewood, Colorado 80110**

Prepared by:

**Sagebrush Archaeological Consultants
4263 Monroe Boulevard
Ogden, Utah 84403**

Under Authority of Cultural Resources Use Permit No. 91-UT-54630

and

Utah State Antiquities Permit No. U-92-SJ-090b,s

Archaeological Report No. 516

March 30, 1992

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**DIVISION OF
OIL GAS & MINING**

INTRODUCTION

A cultural resource inventory was conducted by Sagebrush Archaeological Consultants (Sagebrush) for Wildrose Resources, for Crabtree Oil and Gas Company's Nequoia State No. 16-1 well on March 24, 25, and 26, 1992. The proposed well pad and access route is located in Emery County, Utah. The well pad is situated on State of Utah lands and the access route is on public lands administered by the Bureau of Land Management (BLM), San Rafael Resource Area.

The purpose of the archaeological survey was to identify and document any cultural resources occurring within the project area in order to make recommendations pursuant to obtaining a determination of "no effect" to historic properties in accord with Section 106 of 36 CFR 800, the National Historic Preservation Act of 1966 (as amended). The inventory was also conducted to attain compliance with a number of federal and state antiquities laws: the National Environmental Policy Act of 1969, the Archaeological and Historic Preservation Act of 1974, the Federal Land Policy and Management Act of 1976, the Archaeological Resources Protection Act of 1979, Department of Transportation Act of 1966, American Indian Religious Freedom Act of 1978, and the Utah State Antiquities Act of 1973 (amended 1990).

Prior to the fieldwork, a site file search was conducted for Sagebrush at the BLM, San Rafael Resource Area Office, by Blaine Miller (BLM Archaeologist) and by Evie Seelinger at the Division of State History, Antiquities Section, Salt Lake City. These archival searches revealed that several archaeological projects related to oil and gas exploration occurred in the area (Harper 1978; Larralde 1981). No cultural resources have been documented within the project area.

The fieldwork was performed by Keith and Jacki Montgomery, consulting archaeologists with Sagebrush, under the authority of Cultural Resources Use Permit No. 91-UT-54630 and Utah State Antiquities Permit (Survey) No. U-92-SJ-090b,s issued to Sagebrush Archaeological Consultants Of Ogden, Utah.

DESCRIPTION OF THE PROJECT AREA

The proposed Nequoa State No. 16-1 well, is situated in the SE 1/4, SE 1/4 of Section 16 (State Land), Township 26 South, Range 14 East on the Quadrangle USGS The Flat Tops, Utah 7.5' (Provisional Edition 1986) (Figure 1). The access route occurs in Sections 20, 21 and 31 (BLM Land) in T. 26S., R. 14E. The only divided legal section in the project area is Section 16.

The project area is located just north of the Emery and Wayne Counties boundary line in the Green River Physiographic Section of the Colorado Plateau (Stokes 1986:241). The area lies between the San Rafael Swell to the northwest, the Orange Cliffs to the southeast, and the Mancos Shale Lowlands to the northeast. This area is low and relatively flat with many patches of shifting sand that choke and obliterate the drainages. A few mesas and buttes, such as the Flat Tops, occur on the skyline but there is only one deep gorge, Horseshoe Canyon, that descends notably below the general skyline (Ibid:241).

Topographically, the project area is situated along the northwestern flanks of Sweetwater Reef, formed by the eroded Jurassic Age Entrada sandstone. The Flat Tops located to the west are capped with Summerville and Morrison formations. The nearest water source is Sweetwater Spring, bordered to the east by Dugout Wash. At an average elevation of 5200 feet above sea level, the project area is within the Upper Sonoran Lifezone. The windblown silts and sands of the Green River Desert is dominated by the blackbrush-Mormon tea vegetation community which supports mountain mahogany, sand sage, prickly pear cactus, yucca, snakeweed and Indian rice grass.

METHODOLOGY

The entire inventory constitutes a total of 63.7 acres of which 10 acres encompasses the proposed well pad, 41.3 acres (3.4 miles) comprise the access route, and 12.4 acres (5,400 feet) consists of alternate routes 1 through 5. Alternate routes 1 and 4 are flagged detours around Sites 42Em2290, 42Em2292 and 42Em2293. Alternate routes 2 and 3 are flagged around several deeply incised drainages on the access route, and alternate route 5 is the southern access trail from the bladed road to the well location. Of the total acreage, 16.9 acres is situated on Utah State lands and the remaining 46.8 acres covers BLM lands.

The cultural resource inventory was conducted on foot by two archaeologists walking 10 meter wide parallel transects within the 10 acre well pad and inspecting a 100 foot wide corridor along the access and alternative routes. Upon discovery of a cultural resource, a decision was made as to whether the cultural resource was to be documented as a site or as an isolated find. Sites were defined as artifact scatters containing greater than 10 items or isolated features. Newly-found archaeological sites were documented by examining the surface and marking the locations of surface artifacts with pin-flags which allowed clear definition of site boundaries and artifact concentrations which might indicate prehistoric activity areas. Sites were plotted on the USGS quadrangle map, photographed, and site data entered onto an Intermountain Antiquities Computer System (IMACS, 1990 version) site inventory form.

Isolated finds were documented by recording each find, drawing diagnostic artifacts and plotting their respective locations on the topographic quadrangle for inclusion in this report.

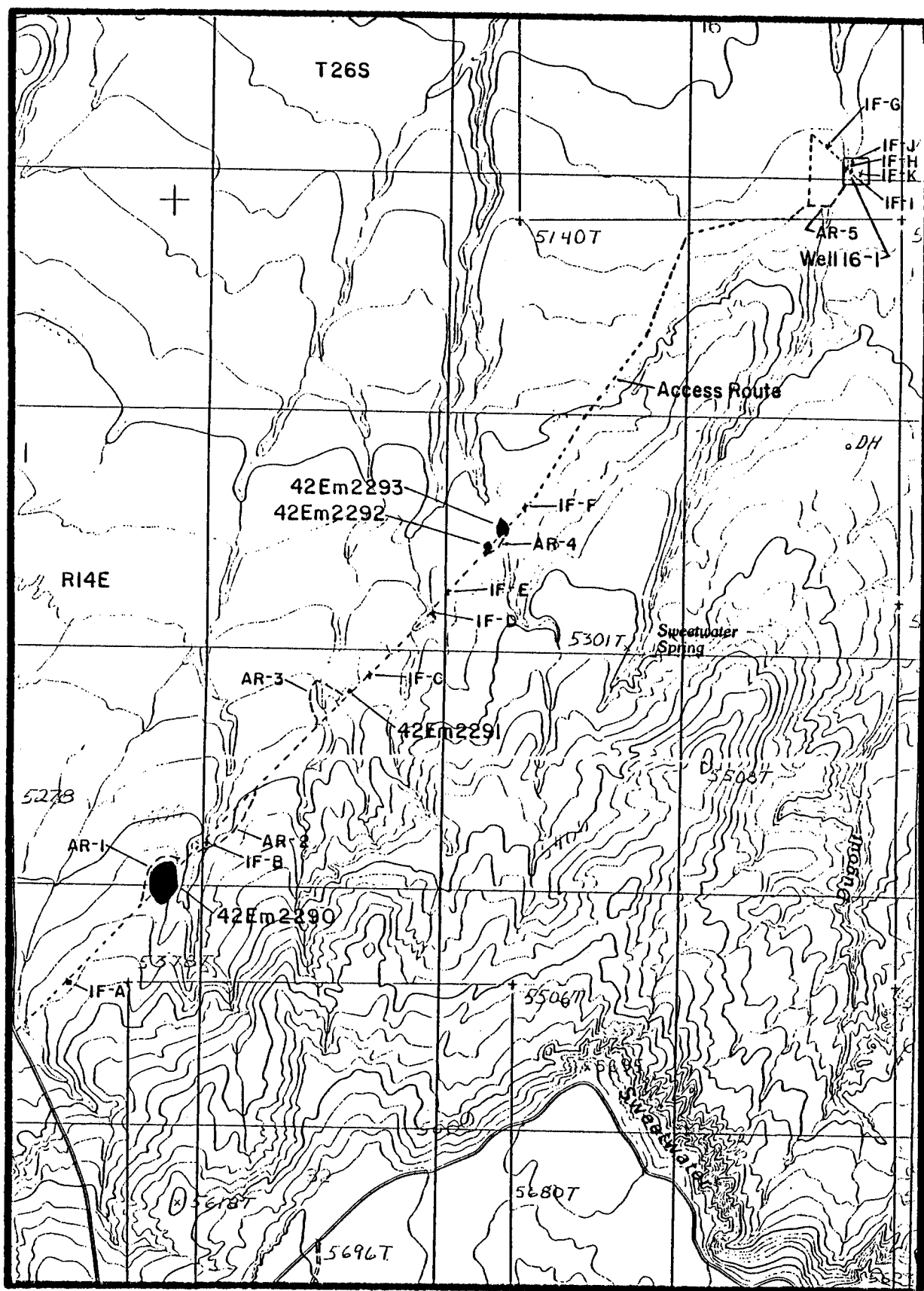


Figure 1. Location of proposed Nequoia State No. 16-1 well and access route with alternative routes (AR). Note archaeological sites and isolated finds (IF). Taken from: USGS 7.5' Quadrangle The Flat Tops, Utah (Prov. Ed. 1986). Scale 1:24,000

RESULTS

The cultural resource inventory of the proposed Nequoa State No. 16-1 well and its access routes entailed the inspection of approximately 63.7 acres. Four prehistoric sites and eleven isolated finds of artifacts were located and documented (Figure 1). The sites are briefly described below and the isolated occurrences are provided in Table 1.

Archaeological Sites

Smithsonian Site No.: 42Em2290
Temporary Site No.: Wildrose Resources K/1
Legal Location: T. 26S., R. 14E., S. 29, SWNWSWNWSWSW
Jurisdiction: Bureau of Land Management
Description: The site is a prehistoric lithic scatter located on the northeastern flank of a gently sloping sandy ridge west of a major intermittent drainage. An existing bladed trail traverses the site which occurs in eolian deposition.

The site measures 130 meters NE-SW by 110 meters NW-SE with the majority of the cultural materials observed in deflated areas of the sandy ridge. The cultural material includes approximately 260 chert and chalcedony flakes of primarily secondary reduction, although a lesser amount of decortication and tertiary flakes are present. Lithic tools include both broken and complete biface implements, several retouched and utilized flakes and a drill bit. No cultural features were observed, although there is good potential for additional subsurface cultural materials and/or features. Although no temporally diagnostic artifacts were observed, the identified lithic tools suggest an Archaic utilization for the site.

An alternate access route (AR-1) was flagged in orange around the northwest side of the site and the boundaries of the site was marked with blue surveyors tape. An aluminum site tag with the temporary site number and project information is situated on the north side of the road on a low sandy rise.

The site is evaluated as eligible for nomination to the National Register of Historic Places (NRHP) since it has a variety of lithic tools and additional potential for buried temporally diagnostic artifacts and /or cultural features.

Smithsonian Site No.: 42Em2291
Temporary Site No.: Wildrose Resources K/2
Legal Location: T. 26S., R. 14E., S. 29, SWNWNW
Jurisdiction: Bureau of Land Management
Description: This is a very small prehistoric lithic scatter and surface quarry situated on top of a ridge at the base of Sweetwater Reef. Surface deposition is mainly sandstone bedrock with areas of a thin veneer of eolian sand. The site occurs along the northeast edge of an existing bladed rail within a blackbrush-Mormon tea vegetation community.

It measures 4 meters by 3 meters and consists of 23 mainly decortication flakes of a local semi-translucent white-pink chert. A tabular core with irregular wide platform margins was observed. An aluminum tag with the temporary site number and project information was placed in the center of the site. The site lacks potential for additional cultural materials and is considered not eligible for nomination to the NRHP.

Table 1. Isolated Finds of Artifacts

I.F. No.	Legal Location	Description
A	T.26S., R.14E., S.31 NWNWNW	1 gold-red secondary flake; 1 brownish-white secondary flake
B	T.26S., R.14E., S.29 SENWSW	6 secondary flakes of red chert and clear chalcedony
C	T.26S., R.14E., S.29 SWNWNE	1 red chert secondary flake; 1 secondary and tertiary white chalcedony flake
D	T.26S., R.14E., S.29 NWNENE	Northern Side-notched projectile point base (Figure 2); 1 white chalcedony secondary flake
E	T.26S., R.14E., S.20 SWSESE	5 secondary and 1 tertiary flakes of black, red chert and white chalcedony
F	T.26S., R.14E., S.21 SWNWSW	8 mustard, red and white chert secondary flakes; 1 purple chert tertiary flake
G	T.26S., R.14E., S.16 NWSESE	1 white chert secondary flake
H	T.26S., R.14E., S.16 NWSESE	1 grayish-white chert secondary flake; 1 red chert secondary flake; 1 white chalcedony secondary flake
I	T.26S., R.14E., S.16 SWSESE	1 sandstone unifacial grinding slab (13 x 11 x 3 cm); 1 white chalcedony tertiary flake
J	T.26S., R.14E., S.16 NWSESE	1 broken-in-half sandstone slab metate with shallow grinding (67 x 40 x 36 cm)
K	T.26S., R.14E., S.16 SESESE	1 tannish-white mottled chert secondary flake; 1 mustard chert secondary flake; 2 red chert secondary flakes; 2 white chalcedony secondary flakes



Isolated Find-D (IF-D)

ACTUAL SIZE

Figure 2. Sketch of Isolated Find-D (IF-D), Northern Side-notched projectile point base. Located in T. 26S., R. 24E., S. 29, NWNENE.

Smithsonian Site No.: 42Em2292
Temporary Site No.: Wildrose Resources K/3
Legal Location: T. 26S., R. 14E., S. 20, NESESE
Jurisdiction: Bureau of Land Management
Description: This is a prehistoric lithic scatter situated on a flat ridge near the base of Sweetwater Reef. The cultural material occurs on both the northwest and southeast sides of an existing bladed trail within a blackbrush-Mormon tea vegetation community.

The cultural materials are comprised of approximately 35 chalcedony and chert flakes of mainly secondary and tertiary reduction. Several lithic debitage clusters occur on the northwest side of the site with no more than three items per square meter. Lithic implements included a large square stemmed broken projectile point and a complete spurred end scraper. These implements may represent a late Paleoindian (Plano Complex) or an early Archaic occupation of the site. The artifacts lie on eolian deposition with a potential for buried cultural materials and/or features. The site is evaluated as eligible for nomination to the NRHP since it has good potential for additional cultural materials and/or features which could contribute to the understanding of early hunter-gatherers in the region.

An alternate access route (AR-4) was flagged in orange around the southeast side of the site and the boundaries of the site were marked with blue surveyors tape. An aluminum tag with the temporary site number and project information is situated on a low sandy rise on the northwest side of the existing road.

Smithsonian Site No.: 42Em2293
Temporary Site No.: Wildrose Resources K/4
Legal Location: T. 26S., R. 14E., S. 20, NESESE
Jurisdiction: Bureau of Land Management
Description: This is a prehistoric lithic scatter of unknown temporal affiliation. It is situated on a sandy ridge near the head of an intermittent drainage within a blackbrush-Mormon tea vegetation community. The surface of the site is deflated with the majority of the cultural materials documented in blow-outs surrounded by sandy hummocks.

Cultural materials consist of approximately 96 chert and chalcedony flakes of mainly secondary and tertiary reduction. Lithic tools comprise of four bifaces of various stages of completion. Use wear was observed on Tool 3. Although no temporally diagnostic artifacts were observed, the identified lithic tools suggest an Archaic utilization for the site. The site has good potential for additional buried lithic artifacts and/or features and is evaluated as eligible for nomination to the NRHP.

Site boundaries were marked with blue surveyors flagging and an access route (AR-4) around the southeast side of the site was marked with orange flagging. An aluminum site tag with the temporary site number and project information is situated on a low sandy rise on the northwest side of the existing road.

National Register of Historic Places

The National Register Criteria for Evaluation of Significance and procedures for nominating cultural resources to the National Register of Historic Places (NRHP) are outlined in 36 CFR 60.4 as follows:

The quality of significance in American history, architecture, archeology, and culture is present in districts, sites, buildings, structures, and objects that possess integrity of location, design, setting, materials, workmanship, feeling, and association, and:

(a) that are associated with events that have made a significant contribution to the broad patterns of our history; or

(b) that are associated with the lives of persons significant in our past; or

(c) that embody the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or

(d) that have yielded, or may be likely to yield, information important in prehistory or history.

The cultural resource inventory of this project area documented four prehistoric sites and eleven prehistoric isolated finds of artifacts. Sites 42Em2290, 42EM2292 and 42Em2293 represent lithic reduction stations with hunting and/or resource processing lithic implements. the only temporal indicators occur at 42Em2292 which yielded a possible late Paleoindian (Plano Complex) or early Archaic stemmed projectile point and a spurred end scraper. All three of these sites are evaluated as eligible for nomination to the NRHP under Criterion d. These sites are situated within eolian deposition with excellent potential for additional cultural material and/or cultural features. Additional research at these aceramic sites could provide research pertaining to settlement-subsistence patterns, chronology and social organization. site 42Em2291 is a small surface quarry/lithic scatter situated on bedrock. The site is considered not eligible for nomination to the NRHP since the present documentation and interpretation of the quarry exhausts its research potential.

The isolated finds of artifacts consists of mainly small surface scatters of lithic debitage flakes representing single episodes of lithic reduction. Only one find (IF-D), a Northern Side-notched projectile point, was temporally diagnostic. The isolated finds of artifacts are considered not eligible for nomination to the NRHP due to their limited research potential.

MANAGEMENT RECOMMENDATIONS

The sites which are determined as eligible for nomination to the NRHP (42Em2290, 42EM2292 and 42Em2293) are all dissected by an existing bladed road which is designated as the access route into the proposed Nequoia State No. 16-1 well. Only a limited number of lithic flakes were observed on this road within each site area and no cultural features were observed. It is felt that the use of this access route into the well location will have limited impacts to these archaeological sites. It is recommended that no blading or construction activities (including rehabilitation work) occur within the boundaries of these three significant sites. If additional construction is required along this access road, then it is recommended that the detour routes (AR-1 and AR-4) be used to avoid impacts to the archaeological sites. The alternate routes have been flagged in orange surveyors tape by the archaeologist and are described within this report.

REFERENCES CITED

Harper, Blake

1978 Archaeological Survey of Seismic Lines in the San Rafael Desert, Emery County, Utah. University of Utah Archaeological Center, Salt Lake City. On file at the San Rafael Resource Area, BLM Report No. 78-9.

Larralde, Signa

1981 Cultural Resource Inventory of Three Seismic Lines in Wayne and Emery Counties, Eastern Utah. Nickens and Associates. On file at the San Rafael Resource Area, BLM Report No. 81-5.

Stokes, William L.

1986 *Geology of Utah*. Utah Museum of Natural History and Utah Geological and Mineral Survey.



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Norman H. Bangerter
Governor
Dee C. Hansen
Executive Director
Dianne R. Nielson, Ph.D.
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340

April 16, 1992

Wildrose Resources
2555 Cherryridge Road
Englewood, Colorado 80110

Gentlemen:

Re: Nequoia State 16-1 Well, 674 feet from the south line, 687 feet from the east line, SE 1/4 SE 1/4, Section 16, Township 26 South, Range 14 East, Emery County, Utah

Pursuant to Utah Admin. R. 649-3-2 (formerly R. 615-3-2) and Utah Admin. R. 649-3-4 (formerly R. 615-3-4), approval to drill the referenced well is hereby granted.

In addition, the following specific actions are necessary to fully comply with this approval:

1. Submittal to the Division of evidence providing assurance of an adequate and approved supply of water as required by Utah Code Ann. § 73-3, Appropriations, prior to commencing drilling operations.
2. Reserve pit should be constructed to provide adequate capacity to contain any anticipated water flows.
3. Compliance with the requirements of Utah Admin. R. 649-1 et seq. (formerly R. 615-1 et seq.), Oil and Gas Conservation General Rules.
4. Notification within 24 hours after drilling operations commence.
5. Submittal of Entity Action Form, Form 6, within five working days following commencement of drilling operations and whenever a change in operations or interests necessitates an entity status change.
6. Submittal of the Report of Water Encountered During Drilling, Form 7.

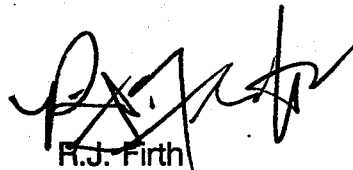
Page 2
Wildrose Resources
Nequoia State 16-1 Well
April 16, 1992

7. Prompt notification prior to commencing operations, if necessary, to plug and abandon the well. Notify Frank R. Matthews, Petroleum Engineer, (Office) (801)538-5340, (Home) (801)476-8613, or R.J. Firth, Associate Director, (Home) (801)571-6068.
8. Compliance with the requirements of Utah Admin. R. 649-3-20 (formerly R. 615-3-20), Gas Flaring or Venting, if the well is completed for production.

Prior to commencement of the proposed drilling operations, plans for facilities for disposal of sanitary wastes at the drill site should be submitted to the local health department. These drilling operations and any subsequent well operations should be conducted in accordance with applicable state and local health department regulations. A list of local health departments and copies of applicable regulations are available from the Department of Environmental Quality, Division of Drinking Water/Sanitation, telephone (801)538-6159.

This approval shall expire one year after date of issuance unless substantial and continuous operation is underway or a request for an extension is made prior to the approval expiration date. The API number assigned to this well is 43-015-30240.

Sincerely,



R.J. Firth
Associate Director, Oil and Gas

ldc
Enclosures
cc: State Lands and Forestry
Bureau of Land Management
J.L. Thompson
WOI1

DRILLING LOCATION ASSESSMENT

**State of Utah
Division of Oil, Gas and Mining**

OPERATOR: CRABTREE OIL AND GAS WELL NAME: NEQUOIA STATE
#1

SECTION:16 TWP:26S RNG:14E LOC: 674 FSL 687 FEL
QTR/QTR COUNTY: FIELD:

SURFACE OWNER:STATE

SPACING: F SECTION LINE F QTR/QTR LINE F ANOTHER WELL

GEOLOGIST:D.JARVIS DATE AND TIME: 3/19/92 1300 HRS

PARTICIPANTS:HOARSE BEEMAN, DRILLING CONTRACTOR, KARY
KALTENBACHER

REGIONAL SETTING/TOPOGRAPHY: SAN RAFAEL DESERT,GENTLY RUGGED DUE
TO HUMMOCKY TOPOG,

LAND USE: RANGE LAND

CURRENT SURFACE USE:NONE

PROPOSED SURFACE DISTURBANCE: PAD WILL BE 150' X 75'

AFFECTED FLOODPLAINS AND/OR WETLANDS:SOME SMALL DRAINAGES

FLORA/FAUNA: PRICKLY PEAR CACTUS,MORMON TEA,INDIAN RICE
GRASS,RABBITBRUSH/REPTILES

ENVIRONMENTAL PARAMETERS

SURFACE GEOLOGY

SOIL TYPE AND CHARACTERISTICS: REDDISH WIND-BLOWN SAND

SURFACE FORMATION & CHARACTERISTICS: ENTRADA,AEOLIAN SAND

EROSION/SEDIMENTATION/STABILITY: MOST DUNES HAVE BEEN
STABILIZED BY VEGETATION , SOME AREAS OF MOBIL DUNES, VERY FRAGIL
AREA

PALEONTOLOGICAL POTENTIAL:

SUBSURFACE GEOLOGY

OBJECTIVES/DEPTHS: WHITE RIM

ABNORMAL PRESSURES-HIGH AND LOW: NONE ANTICIPATED

CULTURAL RESOURCES/ARCHAEOLOGY: SAGEBRUSH ARCHAEOLOGISTS

CONSTRUCTION MATERIALS: EXISTING MATERIAL

SITE RECLAMATION: RECONTOURED AND SEEDED

RESERVE PIT

CHARACTERISTICS: 2 12'x 6' PITS AND 1 RESRVE PIT TO CONTAIN
WATER FLOWS

LINING: NONE

MUD PROGRAM: AIR WITH MIST

DRILLING WATER SUPPLY: N/A

OTHER OBSERVATIONS

STIPULATIONS FOR APD APPROVAL: BUILD RESERVE PIT LARGE ENOUGH TO
CONTAIN ANY WATER FLOWS ENCOUNTERED

ATTACHMENTS



State of Utah

Department of Community & Economic Development
Division of State History
Utah State Historical Society

Norman H. Bangerter
Governor
Max J. Evans
Director

300 Rio Grande
Salt Lake City, Utah 84101-1182
(801) 533-5755
FAX: (801) 364-6436

April 23, 1992

RECEIVED

APR 27 1992

DIVISION OF
OIL GAS & MINING

Frank Matthews
Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, UT 84180-1203

RE: Nequoia's ^{a Wildrose Resources} State 16-1 Lease No. ML 40577 (UT-92-0311-020)
14 265 14E

In Reply Please Refer to Case No. 92-0393

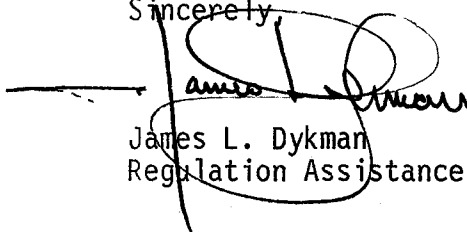
API
43-015-30240

Dear Mr. Matthews:

The Utah State Historic Preservation Office had received the above referenced report. I have attached a copy of the letter I sent to BLM about the case. The project has been reviewed by our office and a determination of No Effect recommend.

This information is provided on request to assist the Division of Oil, Gas and Mining with its Section 106 responsibilities as specified in 36CFR800. If you have questions or need additional assistance, please contact me at (801) 533-7039.

Sincerely,



James L. Dykman
Regulation Assistance Coordinator

JLD:92-0393 OSM

Attachment:



State of Utah

Department of Community & Economic Development
Division of State History
Utah State Historical Society

Norman H. Bangerter
Governor
Max J. Evans
Director

300 Rio Grande
Salt Lake City, Utah 84101-1182
(801) 533-5755
FAX: (801) 364-6436

April 20, 1992

Blaine Miller, Archaeologist
Bureau of Land Management
Price River Resource Area
900 North 700 East
Price, Utah 84501

RE: Crabtree Oil and Gas Company's Nequioa State No. 16-1 Well, Emery County,
U-92-SJ-090bs

In Reply Please Refer to Case No. 92-0498

Dear Mr. Miller:

The Utah State Historic
report on April 7, 1992
properties were recorded
recommendation that the
National Register of Historic
42EM 2291 is Not Eligible
avoided during construction
recommendation that the

This information is provided
Management with its Secretary
you have questions or comments
533-7039.

Chad Moore
Moore Lands * Livestock
Green River 564-3364

Nequioa State 16-1
16-T26S-R14E
Emery County -
Wildrose Resources.

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800. If
(801)

JLD:92-0498 BLM/DOEx3

c: Sagebrush Archaeo
3670 Quincy Avenue
Ogden, Utah 8440



State of Utah

Department of Community & Economic Development
Division of State History
Utah State Historical Society

Norman H. Bangerter
Governor
Max J. Evans
Director

300 Rio Grande
Salt Lake City, Utah 84101-1182
(801) 533-5755
FAX: (801) 364-6436

April 20, 1992

Blaine Miller, Archaeologist
Bureau of Land Management
Price River Resource Area
900 North 700 East
Price, Utah 84501

RE: Crabtree Oil and Gas Company's Nequioa State No. 16-1 Well, Emery County,
U-92-SJ-090bs

In Reply Please Refer to Case No. 92-0498

Dear Mr. Miller:

The Utah State Historic Preservation Office received the above referenced report on April 7, 1992. The report states that four; [42EM2290-93] historic properties were recorded within the project impact area. We concur with your recommendation that three properties, 42EM2290, 92 and 93 are Eligible for the National Register of Historic Places under criteria d of 36CFR60.4, and that 42EM 2291 is Not Eligible. We also understand that the three sites will be avoided during construction. We, therefore, also concur with your recommendation that there will be No Effect as a result of this project.

This information is provided on request to assist the Bureau of Land Management with its Section 106 responsibilities as specified in 36CFR800. If you have questions or need additional assistance, please contact me at (801) 533-7039.

Sincerely,


James L. Dykman
Regulation Assistance Coordinator

JLD:92-0498 BLM/DOEx3/NP x1/NE

c: Sagebrush Archaeological Consultants
3670 Quincy Avenue, Suite 203
Ogden, Utah 84403

TEMPORARY

RECEIVED
FILING FOR WATER IN THE
STATE OF UTAH
APR 13 1992
APR 8 1992

WATER RIGHTS (1) WATER RIGHTS
APPLICATION TO APPROPRIATE WATER

Rec. by nt
Fee Rec. 30.00
Receipt # 364
Microfilmed _____
Roll # _____

For the purpose of acquiring the right to use a portion of the unappropriated water of the State of Utah, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements to Title 73, Chapter 3 of the Utah Code Annotated (1953, as amended).

43-015-30240

*WATER RIGHT NO. 93 - 3675

*APPLICATION NO. A T66015

1. *PRIORITY OF RIGHT: April 8, 1992 *FILING DATE: April 8, 1992

2. OWNER INFORMATION

Name(s): H.E. Beeman Drilling Company *Interest: 100 %

Address: 3470 Spanish Valley Dr.

City: Moab State: Ut Zip Code: 84532

Is the land owned by the applicant? Yes _____ No X (If "No", please explain in EXPLANATORY section.)

3. QUANTITY OF WATER: _____ cfs and/or 0.10 ac-ft.

4. SOURCE: San Rafael River

*DRAINAGE: _____

which is tributary to Green River

which is tributary to Colorado River

POINT(S) OF DIVERSION: _____

COUNTY: Emery

S. 1630 ft. & W. 3340 ft. from NE Cor. Sec. 34, T22S, R14E, SLB&M

Description of Diverting Works: Portable pump and tank truck to well site

*COMMON DESCRIPTION: 14 miles SW of Green River Horse Bench West Quad

5. POINT(S) OF REDIVERSION

The water will be rediverted from _____ at a point: _____

Description of Diverting Works: _____

6. POINT(S) OF RETURN

The amount of water consumed will be _____ cfs or 0.10 ac-ft.

The amount of water returned will be _____ cfs or _____ ac-ft.

The water will be returned to the natural stream/source at a point(s): _____

7. STORAGE

Reservoir Name: _____ Storage Period: from _____ to _____

Capacity: _____ ac-ft. Inundated Area: _____ acres.

Height of dam: _____ feet

Legal description of inundated area by 40 acre tract(s): _____

* These items are to be completed by the Division of Water Rights

Appropriate

8. List any other water rights which will supplement this application _____

9. NATURE AND PERIOD OF USE

Irrigation:	From _____	to _____
Stockwatering:	From _____	to _____
Domestic:	From _____	to _____
Municipal:	From _____	to _____
Mining:	From _____	to _____
Power:	From _____	to _____
Other: Exploration Drilling	From April 15	to May 31

10. PURPOSE AND EXTENT OF USE

Irrigation: _____ acres. Sole supply of _____ acres.
Stockwatering (number and kind): _____
Domestic: _____ Families and/or _____ Persons.
Municipal (name): _____
Mining: _____ Mining District in the _____ Mine.
Ores mined: _____
Power: Plant name: _____ Type: _____ Capacity: _____
Other (describe): Exploration drilling for oil and gas and other associated uses

11. PLACE OF USE

Legal description of place of use by 40 acre tract(s): SE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 16, T26S, R14E, SLB&M
43-015-30040

12. EXPLANATORY

The following is set forth to define more clearly the full purpose of this application. (Use additional pages of the same size if necessary): Para. #2 cont: the point of diversion will be accessed from the UDOT right-of-way on highway 24.

This water will be used to drill and complete the Nequoia State 16-1 wildcat well for Crabtree Oil & Gas Company.

The applicant(s) hereby acknowledges that he/she/they are a citizen(s) of the United States of America or intends to become such a citizen(s). The quantity of water sought to be appropriated is limited to that which can be beneficially used for the purposes herein described. The undersigned hereby acknowledges that even though he/she/they may have been assisted in the preparation of the above-numbered application through the courtesy of the employees of the Division of Water Rights, all responsibility for the accuracy of the information contained herein, at the time of filing, rests with the applicant(s).

H. E. Deeman
Signature of Applicant(s)*

*If applicant is a corporation or other organization, signature must be the name of such corporation or organization by its authorized agent, or in the name of the partnership by one of the partners.

Authorized Agent (please print)

Authorized Agent (signature)

TEMPORARY

STATE ENGINEER'S ENDORSEMENT

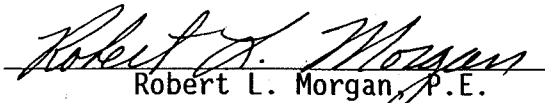
WATER RIGHT NUMBER: 93 - 3675

APPLICATION NO. T66015

1. April 8, 1992 Application received by MP.
 2. April 9, 1992 Application designated for APPROVAL by MP and KLJ.
 3. Comments:
-
-

Conditions:

This application is hereby APPROVED, dated May 8, 1992, subject to prior rights and this application will expire on May 8, 1993.


Robert L. Morgan, P.E.
State Engineer



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WILDLIFE RESOURCES

Norman H. Bangarter
Governor
Dee C. Hansen
Executive Director
Timothy H. Provan
Division Director

1596 West North Temple
Salt Lake City, Utah 84116-3195
801-538-4700
801-538-4709 Fax

April 22, 1992

*big to R. Firth for
will file
I received*
RECEIVED

MAY 01 1992

**DIVISION OF
OIL GAS & MINING**

Dr. Dianne R. Nielson, Director
Utah Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Attention: Frank Matthews

Dear Dianne:

*Wildrose Resources
43-015-30240*

The Division of Wildlife Resources has reviewed and discussed with your personnel potential wildlife resources conflicts and opportunities associated with Crabtree Oil and Gas Company's application for permit to drill (APD) in T26S, R14E, Sec. 16 (Nequoia State 16-1).

We reviewed the existing on-site conditions with your personnel. Based on this review, we identified this area as pronghorn antelope habitat. Antelope are known to use the area, and the plant communities that develop on these sand dunes late in the year include forbs that provide key forage for the antelope.

The conflicts and issues that exist with this project include potential contamination of water sources and displacement of antelope from areas with water, a critical habitat component; displacement of antelope from the dune area during construction and drilling phases; and loss of habitat due to construction activities. The opportunities that exist to help mitigate impacts to wildlife resources include reclamation of the project site using the recommended seedlist; preventing any contamination of water resources in the area; construction and drilling windows that would not include late summer when the antelope would be using the area; and making water (depending on quality and quantity) that is encountered during the project available to wildlife on a long-term basis.

There are existing water developments in the desert that suggest this project may produce good water. A combination of a solar pump and a guzzler would provide year-round water for wildlife. We are aware of some experimental programs with solar pumps that could be involved in this project, perhaps with some financial contributions.

I am enclosing a seedlist that DWR recommends for the blackbrush/cold desert ecological association. I appreciate your agency's attention to this project. If your personnel have any questions or would like to coordinate with this project, please have them contact Ken Phippen, Regional Habitat Manager (637-3310).

Sincerely,

Timothy H. Provan
Director

Table 1. Revegetation prescription for disturbed areas within the BLACKBRUSH ecosystem in the COLD DESERT ecological association.

Plant Material	Pounds of Pure Live Seed/Acre
GRASS SPECIES²:	
Western wheatgrass (<i>Agropyron smithii</i>)	1.5
Pubescent wheatgrass (<i>Agropyron intermedium trichophorum</i>)	1.0
Sand dropseed (<i>Sporobolus cryptandrus</i>)	0.2
Bottlebrush squirreltail (<i>Sitanion hystrix</i>)	0.5
Indian ricegrass (<i>Stipa hymenoides</i>)	1.0
Galleta (<i>Hilaria jamesii</i>)	1.0
Needle-and-thread grass (<i>Stipa comata</i>)	1.0
FORB SPECIES³:	
Gooseberryleaf globemallow (<i>Sphaeralcea grossulariifolia</i>)	0.5
Palmer penstemon (<i>Penstemon palmeri</i>)	0.5
Yellow sweetclover (<i>Melilotus officinalis</i>)	0.5
Scarlet globemallow (<i>Sphaeralcea coccinea</i>)	0.5
Redstem filaree (<i>Eriogonum cicutarium</i>)	0.5
SHRUB AND TREE SPECIES⁴:	
Fourwing saltbush (<i>Atriplex canescens</i>)	2.0
Mat saltbush (<i>Atriplex corrugata</i>)	1.0
Winterfat (<i>Eurotia lanata</i>)	1.0
White rubber rabbitbrush (<i>Chrysothamnus nauseosus hololeucus</i>) ⁶	0.5
Black sagebrush (<i>Artemisia nova</i>) ⁶	0.5 (20% purity)
Basin big sagebrush (<i>Artemisia tridentata tridentata</i>) ⁶	0.25 (20% purity)
TOTAL	13.95
NURSERY OR TRANSPLANT STOCK⁵:	
Antelope bitterbrush (<i>Purshia tridentata</i>)	STEMS/ACRE (SPACING) Plant 454 of each species per acre. Random placement should be 4 feet apart, to reach a goal of 2722 stems/acre.
Fourwing saltbush (<i>Atriplex canescens</i>)	
Nevada Mormon-tea (<i>Ephedra nevadensis</i>)	
Longflower snowberry (<i>Symphoricarpos longiflorus</i>)	
Blackbrush (<i>Coleogyne ramosissima</i>)	
Shadscale (<i>Atriplex confertifolia</i>)	

¹Note attachment: Recommended guidelines for seedbed preparation and planting techniques in the COLD DESERT ecological association.

²Alternate grass species: Thickspike wheatgrass (*Agropyron dasystachyum*), Alkaliscaton (*Sporobolus airoides*), Spike dropseed (*Sporobolus contractus*), Paiute orchardgrass (*Dactylis glomerata*), Russian wildrye (*Elymus junceus*)

³Alternate forb species: Showy goldeneye (*Heliomeris multiflora*), Creeping penstemon (*Penstemon linarioides*), Winged buckwheat (*Eriogonum alatum*), Pacific aster (*Aster chilensis*)

⁴Alternate shrub and tree species: Gardner saltbush (*Atriplex gardneri*), Wyoming big sagebrush (*Artemisia tridentata wyomingensis*)⁶, Cliffrose (*Purshia mexicana*), Nevada Mormon-tea (*Ephedra nevadensis*)

⁵Alternate nursery or transplant stock: Spineless hopsage (*Grayia brandegei*), Spiny hopsage (*Grayia spinosa*), Cliffrose (*Purshia mexicana*), Torrey ephedra (*Ephedra torreyana* - hand collected), Green Mormon-tea (*Ephedra viridis*)

⁶This species should not be covered. It should be hydrosprayed in the seed mix slurry or broadcast over the surface after drilling or covering of other seed and before application of mulch.

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: WILDROSE RESOURCES API NO. 43-015-30240

WELL NAME: NEQUOIA STATE 16-1

Section SESE 16 Township 26S Range 14E County EMERY

Drilling Contractor HE BEAMAN DRILLING

Rig #

SPUDDED: Date 5-5-92

Time 4:00 p.m.

How ROTARY

Drilling will commence

Reported by KARY KALTENBACHER

Telephone # 303-761-9831

Date 5-7-92 SIGNED CW/TAS

OPERATOR Wildrose Resources Corp.
ADDRESS 2555 Cherryridge Rd
Englewood, CO 80110OPERATOR ACCT. NO. N9660

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	11360	43-015-30240	Neguoia State 16-1	SE/SE	16	265	14E	Emery	5/5/92*	
WELL 1 COMMENTS: State-Lease Prop. Zone-Not listed Field-Wildcat Entity added 5-13-92. for Unit-N/A											
WELL 2 COMMENTS:											
WELL 3 COMMENTS:											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

ACTION CODES (See instructions on back of form)

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

(3/89)

RECEIVED

MAY 11 1992

DIVISION OF
OIL GAS & MINING

Kerry J. Kester
Signature
V.D.
Title
Date 5/6/92*

Phone No. (303) 761-9831

Division of Oil, Gas and Mining
PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

☐ Well File Nepuna State 16-1

☐ Suspense

☐ Other

(Location) Sec 16 Twp 26S Rng 14E

(Return Date) _____

(API No.) 43-015-30240

(To - Initials) _____

1. Date of Phone Call: 6-16-92 Time: 3:05

2. DOGM Employee (name) Frank Mattheu (Initiated Call ☐)
Talked to:

Name Kary Kattenbacher (Initiated Call ☒) - Phone No. 303 761-9831

of (Company/Organization) Wildrose Resource

3. Topic of Conversation: Plugging of well.

4. Highlights of Conversation:

Tops of formations
Navajo 370'
Kayenta 780'
Wingate 1005
Chinle 1366
Moencopie 1745

well perf 2130-50

oil recovered ~~asphalt~~
asphalt 11° API 90° pour point

CIBP to be set @ ±2100 10' cmt on top
CIBP @ ±1366 w/ 20' of cmt on plug
plug @ surface. Dry hole marker.

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

RECEIVED

JUN 26 1992

<p align="center">SUNDRY NOTICES AND REPORTS ON WELLS</p> <p align="center"><small>Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells. Use APPLICATION FOR PERMIT— for such proposals.</small></p>		<p>Lease Designation and Serial Number ML-40577</p>									
		<p>7. Indian Allottee or Tribe Name</p>									
		<p>8. Unit or Communitization Agreement</p>									
		<p>9. Well Name and Number Nequoia State No. 16-1</p>									
<p>1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other (specify) Dry Hole </p>		<p>10. API Well Number 43-015-30240</p>									
<p>2. Name of Operator Wildrose Resources Corporation</p>		<p>11. Field and Pool, or Wildcat Wildcat</p>									
<p>3. Address of Operator 2555 Cherryridge Road, Englewood, CO 80110</p>		<p>4. Telephone Number 303-761-9831</p>									
<p>5. Location of Well</p> <p>Footage 674' FSL & 687' FEL (SE/SE) County : Emery QQ, Sec, T., R., M. : SE/SE Sec. 16, T26S, R14E State : UTAH</p>											
<p>12. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</p> <table border="0"> <tr> <td colspan="2"> <p align="center">NOTICE OF INTENT (Submit in Duplicate)</p> </td> <td colspan="2"> <p align="center">SUBSEQUENT REPORT (Submit Original Form Only)</p> </td> </tr> <tr> <td> <input type="checkbox"/> Abandonment <input type="checkbox"/> Casing Repair <input type="checkbox"/> Change of Plans <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Multiple Completion <input type="checkbox"/> Other _____ </td> <td> <input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Recompletion <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off </td> <td> <input checked="" type="checkbox"/> Abandonment * <input type="checkbox"/> Casing Repair <input type="checkbox"/> Change of Plans <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Other _____ </td> <td> <input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off </td> </tr> </table> <p>Approximate Date Work Will Start _____</p> <p>Date of Work Completion <u>June 17, 1992</u></p> <p>Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form. * Must be accompanied by a cement verification report.</p>				<p align="center">NOTICE OF INTENT (Submit in Duplicate)</p>		<p align="center">SUBSEQUENT REPORT (Submit Original Form Only)</p>		<input type="checkbox"/> Abandonment <input type="checkbox"/> Casing Repair <input type="checkbox"/> Change of Plans <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Multiple Completion <input type="checkbox"/> Other _____	<input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Recompletion <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off	<input checked="" type="checkbox"/> Abandonment * <input type="checkbox"/> Casing Repair <input type="checkbox"/> Change of Plans <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Other _____	<input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off
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13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Per verbal approval of Frank Mathews, State Engineer, on 6/16/92 well was P&A'd as follows:

Using wireline truck:

CIBP set @ 2060'. Dumped 24' (2 sx) of cement on top of BP using bailer.

Hole was filled with fresh water.

CIBP set @ 1350'. Dumped 24' (2 sx) of cement on top of BP using bailer.

2 sack cement plug placed at top of 4-1/2" csg: from 20' to surface.

Final plug in place @ 2:30 PM 6/17/92.

Dry hole marker will be welded to top of 4-1/2" csg & location rehab'd this next week.

witnessed by Ted Smith

14. I hereby certify that the foregoing is true and correct

Kary J. Kaltenbacher

Name & Signature

Title **V.P.**

Date **6/18/92**

(State Use Only)

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
ABANDONMENT OPERATIONS

COMPANY NAME: WILDROSE RESOURCES

WELL NAME: NEQUIOA STATE 16-1

QTR/QTR: SE SE SECTION: 16 TOWNSHIP: 26S RANGE: 14E

COUNTY: EMERY API NO: 43-015-30240

CEMENTING COMPANY: ROCKY MOUNTAIN WESTERN WELL SIGN: NO

INSPECTOR: SMITH TIME: 11:45 AM DATE: 6/17/1992

CEMENTING OPERATIONS: PLUGBACK: SQUEEZE: P&A WELL: X

SURFACE PLUG: 20' INTERMEDIATE PLUG: 1350' 24' ON TOP

BOTTOM PLUG SET @: 2,100 WIRELINE: X MECHANICAL:

PERFORATIONS: SQUEEZE PRESSURE:

CASING SIZE: SURFACE: 7 5/8 @370'24# PRODUCTION: 4 1/2 9.5#

GRADE: SURFACE: J-55 PRODUCTION: J-55

PRODUCTION CASING TESTED TO: PSI TIME: MIN:

SLURRY INFORMATION: (INCLUDE NO. OF SACKS CLASS AND ADDITIVES)

1. SURFACE PLUG: 4 7/8 20' CEMENT

2. INTERMEDIATE PLUG: CIBP @1350 24' CEMENT ON TOP

3. BOTTOM PLUG: 2100' 24' CEMENT ON TOP

4. CEMENT ON TOP OF PLUG: YES SEE ABOVE

5. ANNULUS CEMENTED: CEMENT TO SURFACE ON THE SURFACE CASING

6. FLUID IN WELL BORE: FRESH WATER POSSIBLE SOME OIL

ABANDONMENT MARKER SET:

PLATE: PIPE: X CORRECT INFORMATION:

REHABILITATION COMPLETED: NO

COMMENTS: LOCATION WILL BE REHABED AS PER STATE LANDS RULES.
MARKER WILL BE PLACED AND FOLLOW UP INSPECTION WILL BE MADE AT
A LATER DATE.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

WELL COMPLETION OR RECOMPLETION REPORT AND LOG						5. LEASE DESIGNATION AND SERIAL NO. ML-40577	
						6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input checked="" type="checkbox"/> Other _____						7. UNIT AGREEMENT NAME	
b. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> Other _____						8. FARM OR LEASE NAME Nequoia State	
2. NAME OF OPERATOR Wildrose Resources Corporation						9. WELL NO. 16-1	
3. ADDRESS OF OPERATOR 2555 Cherryridge Road, Englewood, CO 80111						10. FIELD AND POOL, OR WILDCAT Wildcat	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements) At surface 674' FSL & 687' FEL (SE/SE) At top prod. interval reported below Same At total depth Same						11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA SE/SE Sec. 16, T26S, R14E	
<div style="border: 2px solid black; padding: 5px; display: inline-block;"> RECEIVED JUN 26 1992 DIVISION OF OIL, GAS & MINING </div>						12. COUNTY Emery	
14. API NO. 43-015-30240						13. STATE Utah	
15. DATE SPUDDED 5/5/92	16. DATE T.D. REACHED 5/24/92	17. DATE COMPL. (Ready to prod.) 6/17/92 (Plug & Abd.)	18. ELEVATIONS (DF, REB, RT, GR, ETC.) 5119' GR	19. ELEV. CASINGHEAD 5121'			
20. TOTAL DEPTH, MD & TVD 2360'	21. PLUG BACK T.D., MD & TVD surface	22. IF MULTIPLE COMPL., HOW MANY --	23. INTERVALS DRILLED BY --	ROTARY TOOLS 0' - 2360'	CABLE TOOLS --		
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD) None						25. WAS DIRECTIONAL SURVEY MADE No	
26. TYPE ELECTRIC AND OTHER LOGS RUN ISFL, FDC-CNL, Dipmeter, CEL MEAS SQ DIP						27. WAS WELL CORED YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> (Submit analysis) DRILL STEM TEST YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> (See reverse side)	
28. CASING RECORD (Report all strings set in well)							
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD		AMOUNT FULLED	
7-5/8"	26.4	370'	11"	155 sx (to surface)		none	
4-1/2"	10.5	2304'	6-3/4"	275 sx (to surface)		none	
29. LINER RECORD							
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT	SCREEN (MD)	30. TUBING RECORD		
N/A					SIZE	DEPTH SET (MD)	PACKER SET (MD)
					N/A		
31. PERFORATION RECORD (Interval, size and number) 2130' - 2150' w/ 4 JSPF (81 holes) using 3-1/8" csg gun				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
				DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED		
				None			
33. PRODUCTION							
DATE FIRST PRODUCTION N/A		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) N/A				WELL STATUS (Producing or shut-in) P&A'd	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)						TEST WITNESSED BY	
35. LIST OF ATTACHMENTS Electric Logs							
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records							
SIGNED <u>Kary J. Kattenbaer</u>				TITLE <u>V.P.</u>		DATE <u>6/18/92</u>	

INSTRUCTIONS

This form should be completed in compliance with the Utah Oil and Gas Conservation General Rules. If not filed prior to this time, all logs, tests, and directional surveys as required by Utah Rules should be attached and submitted with this report.

ITEM 18: Indicate which elevation is used as reference for depth measurements given in other spaces on this form and on any attachments.

ITEMS 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

ITEM 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

ITEM 33: Submit a separate completion report on this form for each interval to be separately produced (see instruction for items 22 and 24 above).

37. SUMMARY OF POROUS ZONES:

Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

38. GEOLOGIC MARKERS

Formation	Top	Bottom	Description, contents, etc.	Name	Top	
					Meas. Depth	True Vert. Depth
Kayenta	780	1005	water	Entrada	surface	surface
Navajo	370	780	water	Navajo	370'	370'
Moenkopi	2130	2150	perforated - recovered approx. 1/2 bbl of 11.2 gravity oil	Kayenta	780	780
				Wingate	1005	1005
				Chinle	1366	1366
				Moenkopi	1745	1745
				White Rim	2300	2300
				TD	2360	2360